



Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMMNMTT)

Faculty Development Programme in Cyber Security
For

Faculty in Universities, Colleges and Institutes of Higher Education
(19th to 24th August 2019)

Call for Registration and Participation

Venue: JSPM's Rajarshi Shahu College of Engineering, Tathawade, Pune
(An autonomous institute affiliated to Savitribai Phule Pune University)



Jointly Organized by
Shivaji University, Kolhapur

&

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About Shivaji University, Kolhapur

Shivaji University, established in 1962, is named after the Great Maratha Warrior and founder of the Maratha Empire Chhatrapati Shivaji. One of the major objectives behind foundation of this University was to cater to the regional needs of South Maharashtra. The jurisdiction of the University is spread over three districts viz. Kolhapur, Sangli and Satara with strength of about 3,00,000 students studying in 280 affiliated colleges and recognized institutes. The recent phase of the University can be termed as "a pursuit of academic excellence". Since last 4-5 years, several attempts are being made to overcome the image of University as a regional University. The University's efforts towards excellence are being recognized by the substantial grants received from funding agencies like UGC, DST, DBT etc. Another indicator of recognition of University is collaborations with premier institutes in the country. Shivaji University has recently signed MOU with Bhabha Atomic Research Centre, Mumbai for research in Material Science. It has also joined hands with Indian Institute of Geo-Magnetism, Mumbai and industries like Phyto-Pharma. Prestigious institutes like Maharashtra Police Academy, Nashik and Centre for Social Studies, Surat have sought affiliation with the Shivaji University. Shivaji University has been re-accredited by National Assessment and Accreditation Council (NAAC) Bangalore, with "A" Grade (CGPA-3.16) (2014). Shivaji University has bagged the 28th position in the rankings announced by the National Institutional Ranking Framework (NIRF) of Union Ministry of Human Resource Development (MHRD). As per the INFLIBNET report, Shivaji University stands second in use of Nature publications Group's (NPG) e-journal usage in the country. The University has also signed MoU with Centre for Development of Advanced Computing (C-DAC), Pune. Under the agreement, the two institutions will exchange information and communication technology.

About JSPM's Rajarshi Shahu College of Engineering, Tathawade

Jayawant Shikshan Prasarak Mandal (JSPM) has been established in 1998 by Dr. T. J. Sawant in the memory of his father late Jayawantrao Sawant with the aim of imparting quality education in various disciplines starting from KG to Ph.D. JSPM offers education in Engineering, Management and Pharmacy through 78+ institutes.

Rajarshi Shahu College of Engineering (RSCOE) has been established in 2001 with the aim of providing quality technical education and excellence in the ever expanding horizon of technical revolution of 21st century. The institute is becoming an icon in the field of engineering education in the state of Maharashtra. The Institute has been approved by the All India Council for Technical Education (AICTE) with 3.26 CGPA, New Delhi and affiliated to SPPU Pune. The RSCOE has accredited by NAAC with A grade. All undergraduate programs are accredited by NBA, New Delhi in three cycle 2012-13, 2014-15 and 2018-19. RSCOE has received the best college award (Professional category) in 2012-13 by SPPU Pune. RSCOE has received platinum grade in AICTE CII survey. RSCOE has recognition for 2(f) & 12B by UGC and also has permanent affiliation to SPPU.

The institute has many eminent personalities from the field of education and industry on its advisory committee, whose rich experience and guidance benefit the society. The institute stands committed to technical, moral and intellectual growth of the students and provides the best possible job placement through the training and placement cell.

About Resource Centre in Cyber Security and Data Sciences:

National Resource Centre in Cyber Security and Data Sciences established under the guidance RUSAMaharashtra from the grants received from the MHRD, Government of India under the 'Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT)' scheme. Objective of this centre is capacity building of human resource which is recognized as a critical element to strengthen not only the organization/ institutions but even the people at grass roots level by spreading awareness in Cyber security. There is a large gap between demand and

availability of trained human resource in Cyber Security, who can beneficially utilize the available information for cyber safety. Cyber security trained human resource is needed both as the provider and user of technology. This is vital for sustainable development so that informed decision making can be done at all levels.

About the Training:

Cyber security is need of the time, as estimated by National Association of Software and Services Companies (NASSCOM)'s Cyber security Task Force, there is need of 1 million trained cyber security professionals in India by 2025. But, currently there are only 62,000, so to fill this gap there is need to introduce cyber security courses at graduate and postgraduate levels. Our aim is to train teachers with practical skills so that more and more cyber security experts can be shaped every year. It is expected that the 'Train the Trainers' approach shall percolate to the students in colleges and make them suitable to take up challenges in the domain of Cyber Security which is the need of this decade and will thus improve their employability enhancing campus placement. In addition, Cyber Security courses will help in start-ups and employment opportunities. The faculty shall be also trained specifically as knowledge creator with strong practical 'skills' and theoretical details.

Objectives of the Training:

- Train 2000 faculties
- Building networks of professional
- Forming consortium of industries specialized in cyber security which will interface with Shivaji university Kolhapur
- Sensitizing cyber security to masses at large for strengthening cashless transactions.

Eligibility:

Faculty Members from Science and Technology, Humanities, Social Sciences, Commerce and Management discipline from Universities, Colleges, NITs, IITs, Engineering Colleges and other Institutions of Higher Education. As the number of participants is limited to 40, preference will be given on First Come First Serve basis.

Programme Schedule:

Dates: 19th to 24th August 2019

Venue JSPM's Rajarshi Shahu College of Engineering Sr.No 80 Pune-Mumbai bypass highway, Tathawade Pune
(Maharashtra – INDIA)-411033

Day and Date	Course Contents
Day 1: Monday, 19.08. 2019	Introduction and Computer Security- I
Day 2: Tuesday, 20.08.2019	Computer Security - II
Day 3: Wednesday, 21.08.2019	Network Security I
Day 4 Thursday, 22.08.2019	Network Security II and Email Security, I
Day 5: Friday, 23.08.2019	Website Security I
Day 6: Saturday, 24.08.2019	Website Security II and Cyber Law, Mobile Security and Cloud Security

The eligible candidates will be given confirmation on web-portal and it will also be informed through email. All confirmed participants will have to submit a relieving letter from their institution on the first day of the training.

Laboratory assignments:

1. Installing, Configuring and Commissioning of Proxy Server using FOSS. Studying issues like Browser security, email security, difference between http, https etc.
2. Perform port scanning using NMAP (Network Mapper).
3. Analyse the network traffic using Wireshark or any other network sniffer.
4. Collect the Owner's information using spyware.
5. Steganography: Perform data hiding using covered writing
6. Identification of virus infected file using VirusTotal.com
7. Understanding trace route functionality using open visual trace route
8. Vulnerability analysis in web application using Zed Attack Proxy
9. Isolating WLAN Traffic using Separate Firewall for VPN Connection
10. To Create a Virtual Private Network (VPN) over WAN
11. To evaluate application response time in the presence and absence of a firewall.
12. Managing Security in Small Business Network
13. Security Group Policies Management
14. Group Policy management
15. ICMP Ping
16. Subnetting
17. Firewalls
18. RIP
19. OSPF
20. VPN
21. VLAN
22. Case study on IT Act 2000
23. Case study on cyber attack / cyber crime

Registration:

Participants must register their names through online web-portal only. No need to send any printed documents to the Resource Center Shivaji University.

Registration Link: <http://sangnaksuraksha.com>

Registration details:

Registration and participation is free of cost. Hard copy of the registration form duly forwarded through the Head of the Institute should be submitted to the Co-coordinator on the first day of the programme.

Instructions for the Participants:

Attendance for all sessions is mandatory. Breakfast, Lunch and Tea will be provided.

Outstation participants will be provided accommodation only on advance intimation.

Technical Requirements from participants:

Participants should carry their own laptop as well as debit cards, credit cards, payment wallets, net banking, UPI, mobile banking, paypal, aadhar, PAN card with them for sample demos.

Participants should carry Smartphone either android / ios with them.

Participant should focus on smartphone apps like Truecaller, PayTM, PhonePe, Google Pay, PayZapp, Authenticator, Facebook, WhatsApp, Instagram

Important Note: This FDP under PMMMNMTT is applicable for CAS promotions as per UGC gazette.

Organizing Committee

Chief Patron

Hon. Prof. Dr. D. B. Shinde

Vice Chancellor

Shivaji University, Kolhapur

Hon. Prof. Dr. D. T. Shirke

Pro-Vice Chancellor,

Shivaji University, Kolhapur

Dr. V. D. Nanavadekar

Registrar, Shivaji University, Kolhapur

Hon. Shri. Tanaji Sawant

Founder Secretary, JSPM

Cabinet Minister, Maharashtra State.

Dr. P. P. Vitkar,

Director, JSPM, Tathawade campus.

Prof. S. L. Bhilare

Executive Director, JSPM, Tathawade campus.

Shri. Ravi Sawant

Vice President, TSSM and Estate Manager,

Tathawade campus

Principal Investigator

Dr. R.K. Kamat

IQAC Director,

Director, Innovation, Incubation and Linkages

Head, Department of Computer Science,

Shivaji University, Kolhapur

Co-Investigator

Dr. K. S. Oza

Assistant Professor,

Department of Computer Science,

Shivaji University, Kolhapur

Dr. R. K. Jain

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JSPM's Rajarshi Shahu College of Engineering, Tathawade, Pune

(An autonomous institute affiliated to Savitribai Phule Pune University)

Prof. A. S. Deoshtali

Deputy Director

JSPM's Rajarshi Shahu College of Engineering, Tathawade, Pune

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Head of Department

JSPM's Rajarshi Shahu College of Engineering, Pune Department of E & TC

(An autonomous institute affiliated to Savitribai Phule Pune University)

Dr. P. M. Ghatge

Convener

JSPM's Rajarshi Shahu College, Pune of Engineering, Department of E & TC

(An autonomous institute affiliated to Savitribai Phule Pune University)

Co-Ordinator's

Prof. R. S. Bulbule

Assistant Professor, E&TC Department

Prof. K.V. Fale

Assistant Professor, E & TC Department

Members

Dr. S.C. Patil
Dr. A.N. Paithane
Dr. S. N. Bhadoria
Dr. S. A. Bhisikar
Dr. T. S. Dhope
Mr. S.C. Wagaj
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